

Form PTO-1449

~~TC 1700~~

Attorney Docket No.
C152 1150

Serial No.
10/051,666

INFORMATION DISCLOSURE CITATION

Applicant
Crafton et al.

Filing Date
01/18/02

Group



(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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Form PTO-1449		Attorney Docket No. C152 1150		Serial No. 10/051,666	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant Crafton et al.	
				Filing Date January 18, 2002	
U.S. PATENT DOCUMENTS					
Examiner Initials	Item	Document Number	Date	Name	Class Subclass Filing Date If Appropriate
SK	A	5,531,423	07/96	Crafton et al.	266 44
	B	5,565,046	10/96	Crafton et al.	148 538
	C	5,294,094	03/94	Crafton et al.	266 44
	D	5,350,160	09/94	Crafton et al.	266 252
	E	5,354,038	10/94	Crafton	266 44
	F	5,439,045	08/95	Crafton	164 5
	G	5,551,998	09/96	Crafton et al.	148 538
	H	5,738,162	04/98	Crafton	164 5
	I	4,340,433	07/82	Harding	148 16
	J	4,604,055	08/86	Mackenzie	432 58
SK	K	4,648,836	03/87	Thom	432 107
FOREIGN PATENT DOCUMENTS					
		Document Number	Date	Country	Class Subclass Translation Yes No
SK	L	2074022	09/85	Japan	1 1
	M	5939464	08/82	Japan	1 1
	N	59219410	12/84	Japan	1 1
	O	5825860	02/83	Japan	1 1
SK	P	5653867	05/81	Japan	1 1
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)					
G	Q	Economical Used Energy Type Continuing Heat Treating Furnace For Aluminum Castings Dogyo - Kanetsu Vol. 21 No. 2 Pages 29-36 - <u>March 1984</u>			
	R	Brochures describing Beardsley & Pipe PNEU-RECLAIM Sand Reclamation Units Prior to <u>August 13, 1992</u>			
G	S	Brochure describing Fataluminum Sand Reclamation Units - Prior to <u>August 13, 1992</u>			
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.					
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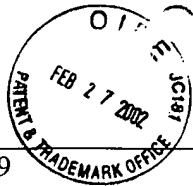
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U.S. PATENT DOCUMENTS								
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
SK	T	4,392,814	07/83	Harding	431	170	RECEIVED MAR 05 2002 TC 1100	
	U	4,478,572	10/84	Selli	432	13		
	V	4,415,444	11/83	Guptail	209	3		
	W	4,411,709	10/83	Nakanishi	148	3		
	X	4,700,766	10/87	Godderidge	164	5		
	Y	4,620,586	11/86	Musschoot	164	253		
	Z	3,871,438	03/75	Vissers et al.	164	5		
	AA	4,140,467	02/79	Ellison et al.	432	72		
	AB	5,253,698	10/93	Keough et al.	164	269		
	AC	4,457,352	07/84	Scheffer	164	5		
	AD	4,579,319	04/86	Sasaki	266	252		
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SK	AE	2230720	10/90	UK	B220	29/00		✓
	AF	0234810	03/85	USSR	164	432		✓
	AG	6316853	01/88	Japan	164	432		✓
	AH	3206048	02/82	Germany	—	—		✓
	AI	2307773	02/73	Germany	—	—		✓
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)								
SK	AJ	Paul M. Crafton - Heat Treating Aging System Also Permits Core Sand Removal - Reprinted from 09/89 Modern Castings magazine						
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.								
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Group							
U.S. PATENT DOCUMENTS							
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
CA	AK	2,988,351	06/61	Barnett et al.	263	40	
	AL	4,211,274	07/80	Slowinski et al.	164	401	
	AM	4,294,436	10/81	Takahashi	266	257	
	AN	3,534,946	10/70	Westerkamp et al.	263	28	
	AO	4,577,671	03/86	Stephan	164	401	
	AP	4,544,013	10/85	Kearney et al.	164	5	
	AQ	4,955,425	09/90	McKenna	164	269	
	AR	4,582,301	04/86	Wunning	266	87	
	AS	3,737,280	06/73	Crompt	432	14	
CA	AT	5,423,370	06/95	Bonnemersou et al.	164	132	
FOREIGN PATENT DOCUMENTS							
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CA	AU	6092040	05/85	Japan	164	132	<input type="checkbox"/> <input checked="" type="checkbox"/>
	AV	4012158	1989	Germany	164	5	<input type="checkbox"/> <input type="checkbox"/>
	AW	1129012	07/82	USSR	—	—	<input type="checkbox"/> <input type="checkbox"/>
	AX	2914221	04/79	Germany	—	—	<input type="checkbox"/> <input type="checkbox"/>
CA	AY	1569152	06/80	UK	—	—	<input type="checkbox"/> <input type="checkbox"/>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
CA	AZ	Sales brochure describing Thermfire Brand Sand Reclamation, Gudgeon Bros., Ltd. believed to be known to others prior to 09/89					
CA	BA	Sales brochure describing Simplicity/Richards Gas-Fired Thermal Reclamation System Simplicity Engineering, Inc. - believed to be known to others prior to 09/89					
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant Crafton et al.			
				Filing Date January 18, 2002			
U.S. PATENT DOCUMENTS							
Examiner Initials	Item	Document Number	Date	Name	Class Subclass Filing Date If Appropriate		
A	BB	4,161,389	07/79	Staffin et al.	432 58		
	BC	4,519,718	05/85	Staffin et al.	374 45		
	BD	4,457,788	07/84	Staffin et al.	148 20.3		
	BE	5,378,434	01/95	Staffin et al.	422 141		
	BF	5,018,707	05/91	Hemsath et al.	266 254		
	BG	5,251,683	10/93	Backer	164 98		
	BH	5,547,228	10/85	Girrell et al.	148 16		
	BI	4,671,496	06/87	Girrell et al.	266 78		
	BJ	4,512,821	04/85	Staffin et al.	148 16.5		
	BK	4,524,957	06/85	Staffin et al.	266 252		
A	BL	4,779,163	10/88	Bickford et al.	361 212		
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class Subclass Translation Yes No		
A	BM	2337894	11/74	Germany	B08b 7/04		L
	BN	1,564151	04/80	UK			
	BO	2315958	04/74	Germany	B08b 5/00		
	BP	7043571	12/70	France	15/00 11/00		
A	BQ	1392405	04/75	UK	25/00 33/18		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
A	BR	Sales brochure describing AirTrac Brand Fluidizing Conveyor, Air Trac Systems Corp., believed to be known to others prior to 09/89					
	BS	Sales brochure describing Fluid Bed Calcifer Thermal Sand Reclamation Systems, Dependable Foundry Equipment Co. - Believed to be known to others prior to 09/89					
A	BT	Foundry Management & Technology - 12/89 - Vol. 117; No. 12; Pg. G3 - Shakeout/Cleaning/ Finishing Brochure					
	* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.						
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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant Crafton et al.	
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Group					

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
S	BU	5,169,913	12/92	Staffin et al.	526	65	
	BV	4,613,713	09/86	Staffin et al.	585	241	
	BW	4,068,389	01/78	Staffin et al.	34	57A	
	BX	4,623,400	11/86	Japka et al.	148	6.35	
	BY	3,760,800	09/73	Staffin et al.	128	24.1	
	BZ	4,830,605	05/89	Hodate et al.	431	170	
	CA	4,242,077	12/80	Hyre	431	19	
	CB	2,813,318	11/57	W. Horth	22	89	
	CC	4,681,267	07/87	Leidel et al.	241	23	
	CD	2,385,962	10/45	C.A. Barnett	34	13	
S	CE	5,850,866	12/98	Crafton	164	5	

FOREIGN PATENT DOCUMENTS

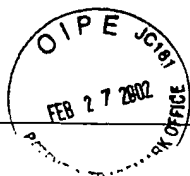
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S	CF	1197981	12/85	Canada	38	18		C
	CG	2104164	08/90	Japan	—	—		
	CH	62110248	8/90	Japan	—	—		
	CI	63108941	05/88	Japan	—	—		
	CJ	2323805	05/73	German	—	—		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant Crafton et al.			
				Filing Date January 18, 2002		Group	
U.S. PATENT DOCUMENTS							
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
g	CK	5,829,509	11/98	Crafton	164	5	
	CL	4,177,952	12/79	Rikker	241	40	
	CM	4,325,424	04/82	Scheffer	164	5	
	CN	4,499,940	02/85	Hall	164	36	
	CO	6,112,803	09/00	Kruger	164	103	
	CP	4,817,920	04/89	Erfort, Jr.	266	252	
	CQ	5,340,418	08/94	Wei	148	549	
	CR	5,536,337	07/96	Wei	148	549	
	CS	4,419,143	12/83	Ito et al.	148	3	
	CT	4,420,345	12/83	Ito et al.	148	3	
a	CU	4,177,085	12/79	Chadwick et al.	148	2	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
g	CV	5825417	02/83	Japan	E21D	1400	<input type="checkbox"/> <input checked="" type="checkbox"/>
	CW	WO 98/14291	04/98	PCT	—	—	<input type="checkbox"/> <input type="checkbox"/>
	CX	2187398	09/87	UK	E27B	15/09	<input type="checkbox"/> <input type="checkbox"/>
	CY	WO 97/30805	08/97	PCT	—	—	<input type="checkbox"/> <input type="checkbox"/>
a	CZ	195 30 975	02/97	Germany	B22C 5/00	B22D 20/00	<input type="checkbox"/> <input checked="" type="checkbox"/>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
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Form PTO-1449				Attorney Docket No. C152 1150		Serial No. 10/051,606	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant Crafton et al.		RECEIVED MAR 9 5 2002 TC 1700	
				Filing Date January 18, 2002			
U.S. PATENT DOCUMENTS							
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
9	DA	4,027,862	06/77	Schaefer et al.	266	160	
	DB	3,996,412	12/76	Schaefer et al.	13	20	
	DC	3,856,583	12/74	Sanders et al.	148	159	
	DD	4,620,884	11/86	Heath	148	128	
	DE	4,752,061	06/88	Dalton et al.	266	87	
	DF	3,675,905	07/72	Placek	263	2	
	DG	3,194,545	07/65	Smith	266	3	
	DH	3,222,227	12/65	Baugh et al.	148	11.5	
	DI	3,432,368	03/69	Nakamura	148	12	
	DJ	3,604,695	09/71	Steeper	266	5T	
9	DK	3,794,232	02/74	Petri	226	50	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
9	DL	0546210A1	06/93	Europe	B22D 2900	B22D 3700	✓
	DM	2448573	02/79	France	C21D 2900	124 1262	
	DN	1-91957	04/89	Japan			
	DO	3-465	01/91	Japan	B22D	2900	
	9	DP	1-122658	05/89	Japan	B22D	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
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				Applicant Crafton et al.			
				Filing Date January 18, 2002		Group	
U.S. PATENT DOCUMENTS							
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
S	DQ	4,021,272	05/77	Asai et al.	148	15	
	DR	4,098,624	07/78	Laird, Jr.	148	153	
	DS	4,255,133	03/81	Tanifuji et al.	432	24	
	DT	4,257,767	03/81	Price	432	24	
	DU	4,338,077	07/82	Shibayama et al.	432	11	
	DV	4,357,135	11/82	Wilde et al.	432	11	
	DW	4,457,789	07/84	Wilks	148	134	
	DX	4,606,529	08/86	Tooch	266	80	
	DY	4,832,764	05/89	Merz	148	131	
	DZ	4,878,952	11/89	Pillhoefer	148	1	
EA	5,108,519	04/92	Armanie et al.	148	12.7A		
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
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U.S. PATENT DOCUMENTS					
Examiner Initials	Item	Document Number	Date	Name	Class Subclass Filing Date If Appropriate
S	EB	5,108,520	04/92	Liu et al.	148 12.7R
	EC	5,115,770	05/92	Yen et al.	123 193.6
	ED	5,120,372	06/92	Yen et al.	420 537
	EE	5,178,695	01/93	LaSalle et al.	148 698
	EF	5,226,983	07/93	Skinner et al.	148 549
	EG	5,306,359	04/94	Eppeland et al.	148 511
	EH	5,308,410	05/94	Hurimura et al.	148 561
	EI	5,312,498	05/94	Anderson	148 695
	EJ	5,336,344	08/94	Wei	148 549
	EK	5,340,089	08/94	Heath et al.	266 87
S	EL	5,485,985	01/96	Eppeland et al.	266 87
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U.S. PATENT DOCUMENTS					
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A	EM	5,514,228	05/96	Wyatt-Mair et al.	148 551
	EN	5,518,557	05/96	Jones et al.	148 511
	EO	5,547,523	08/96	Blankenship, Jr. et al.	148 677
	EP	5,551,670	09/96	Heath et al.	266 87
	EQ	5,571,347	11/96	Bergsma	148 550
	ER	5,593,519	01/97	Blankenship, Jr. et al.	148 514
	ES	5,643,372	07/97	Sainfort et al.	148 699
	ET	4,490,107	12/84	Kimura et al.	422 11
	EU	6,217,317	04/01	Crafton et al.	432 128
FOREIGN PATENT DOCUMENTS					
		Document Number	Date	Country	Class Subclass Translation Yes No
E	EV	2,310,541	09/73	Germany	100 1/00 1
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)					
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